A tocotrienol series with an oxidative terminal prenyl unit from Garcinia amplexicaulis

Titre	A tocotrienol series with an oxidative terminal prenyl unit from Garcinia amplexicaulis
Type de publication	Article de revue
Auteur	Lavaud, Alexis [1], Richomme, Pascal [2], Gatto, Julia [3], Aumond, Marie-Christine [4], Poullain, Cyril [5], Litaudon, Marc [6], Andriantsitohaina, Ramaroson [7], Guilet, David [8]
Editeur	Elsevier
Type	Article scientifique dans une revue à comité de lecture
Année	2015
Langue	Anglais
Date	Jan. 2015
Pagination	103-110
Volume	109
Titre de la revue	Phytochemistry
ISSN	0031-9422
Mots-clés	Chromanols [9], Clusiaceae [10], Garcinia amplexicaulis [11], Inhibition of lipid peroxidation [12], Tocotrienols [13]
Résumé en anglais	Ten tocotrienol derivatives, i.e., amplexichromanols (1–10), were isolated from stem bark of Garcinia amplexicaulis Vieill. ex Pierre collected in Caledonia. The structures of the compounds 1–5 were determined to be chromanol derivatives substituted by a polyprenyl chain oxidized in terminal position. The remaining compounds 6–10 are the corresponding dimeric derivatives. Eleven known compounds, including xanthones, tocotrienol derivatives, triterpenes and phenolic compounds, were also isolated. Their structures were mainly determined using one and two-dimensional NMR and mass spectroscopy analysis. The compounds and some amplexichromanol molecules formerly isolated from G. amplexicaulis exhibited significant antioxidant activity against lipid peroxidation and in the ORAC assay.
URL de la notice	http://okina.univ-angers.fr/publications/ua9692 [14]
DOI	10.1016/j.phytochem.2014.10.024 [15]
Lien vers le document	http://dx.doi.org/10.1016/j.phytochem.2014.10.024 [15]

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